

**Claims:**

No claims have been amended in this response. The listing of claims is presented to provide continuity across applications and as a convenience to the Examiner.

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This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 10 Claim 1 (original): A method of estimating carrier frequency offset in a constant-period, preamble wireless communications system, the method comprising:  
determining a main-cursor signal corresponding to a main-cursor path from a  
matched code output;  
multiplying the main-cursor signal by a delayed conjugated version of the  
15 main-cursor signal to obtain a first result; and  
estimating the carrier frequency offset according to a predefined formula utilizing  
the first result.

- Claim 2 (original): The method of claim 1 wherein the main-cursor signal is determined  
20 using peak-detection.

Claim 3 (original): The method of claim 1 wherein the predefined formula includes  
multiplying a phase of the first result by the sign of a real part of the first result.

- 25 Claim 4 (original): The method of claim 3 wherein the main-cursor signal is a BPSK  
signal.

Claim 5 (original): The method of claim 1 wherein the communications system is a DSSS wireless communications system.

5        Claim 6 (original): A device for use in a constant-period, preambled wireless communications system, the device comprising:  
a transceiver for wirelessly communicating with another communications device within the communications system; and  
control circuitry connected to the transceiver, the control circuitry comprising a CPU and a memory, the memory comprising:  
10        program code capable of causing a main-cursor signal corresponding to a main-cursor path to be determined from a receiver's matched code output;  
program code capable of causing the main-cursor signal to be multiplied by a delayed conjugated version of the main-cursor signal to obtain a first  
15        result;  
program code comprising at least a predefined formula; and  
program code capable of causing a carrier frequency offset to be estimated according to the predefined formula utilizing the first result.

20        Claim 7 (original): The device of claim 6 wherein the main-cursor signal is determined using peak-detection.

Claim 8 (original): The device of claim 6 wherein the predefined formula includes multiplying a phase of the first result by the sign of a real part of the first result.

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Claim 9 (original): The device of claim 6 wherein the main-cursor signal is a BPSK signal.

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Claim 10 (original): The device of claim 6 further comprising a keyboard and LCD.

Claim 11 (original): The device of claim 6 wherein the communications system is a DSSS  
wireless communications system.